FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Ì	OMB APPROVAL	
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

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1. Name and Address of Reporting Person* MUTO FREDERICK T						2. Issuer Name and Ticker or Trading Symbol ISIS PHARMACEUTICALS INC [ISIS]						Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
											X	Director				
(Last) 4401 EASTGATE MALL	(First)	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 07/01/2004							Officer (give title	below)	Other (sp	ecify below)	
(Street) SAN DIEGO CA 92121			4. If Ame	4. If Amendment, Date of Original Filed (Month/Day/Year)						Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(State)	(Z	ip)													
			-	Table I -	Non-Dei	rivative Se	curities A	quired, Di	sposed of	f, or Beneficially Ow	ned					
					2. Transac Date (Month/Da	Exec	Execution Date, 0		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) or Disposed Of (E 3, 4 and 5)			D) (Instr. 5. Amount of Securiti Beneficially Owned F-Reported Transaction		ership Form: (D) or Indirect (I)	7. Nature of Indirect Beneficial	
				(MONTH/Da		(Month/Day/Year)	Code V	Amount	(A) or (D)	Price	(Instr. 3 and 4)	(s) (Instr. 4)		Ownership (Instr. 4)		
				Table l						or Beneficially Owne le securities)	d					
1. Title of Derivative Security (Is 3)	tr. 2. Conversion or Exercise Price of Derivative Security	Exercise (Month/Day/Year) ce of ivative	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transac (Instr. 8)	ction Code		f Derivative cquired (A) or (D) (Instr. 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Under Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
	County							Date	Expiration		Amount or		Reported Transaction(s)	,		
				Code	V	(A)	(D)	Exercisable	Date	Title	Number of Sha	res	(Instr. 4)			

Remarks:

B. Lynne Parshall, Attorney-in-Fact for Frederick T. Muto

07/02/2004

** Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.

Know all by these presents, that the undersigned hereby constitutes and appoints each of Stanley T. Crooke and B. Lynne Parshall, signing individually, the undersign (1) execute for and on behalf of the undersigned, an officer, director or holder of 10% or more of a registered class of securities of Isis Pharmaceuticals, Inc. (Is (2) do and perform any and all acts for and on behalf of the undersigned that may be necessary or desirable to complete and execute such Form 3, 4 or 5, complete and (3) take any other action of any nature whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit, in the best in The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, (1) This Power of Attorney shall remain in full force and effect until the earliest to occur of (a) the undersigned is no longer required to file Forms 3, 4 and 5 with 1

IN WITNESS WHEREOF, the undersigned has cause this Power of Attorney to be executed as of this 4th day of December, 2002.

/s/Frederick T. Muto